# SIEMENS

#### Data sheet

### 3RH2911-1LA20



auxiliary switch, on the front, 2 NO, 73/74, 83/84, current path: 1 NO, 1 NO, cable entry from the top, screw terminal, for contactors 3RT2 and contactor relays 3RH2

| product brand name   | SIRIUS                              |
|--|-------------------------------------|
| product category   | Auxiliary switch                    |
| product designation  | auxiliary switch                    |
| design of the product  | for snapping onto the front         |
| product type designation   | 3RH29                               |
| suitability for use  | Contactor relay and power contactor |
| General technical data   |                                     |
| size of contactor  | S00, S0, S2, S3                     |
| insulation voltage with degree of pollution 3 at AC rated value      | 690 V                               |
| surge voltage resistance rated value                                 | 6 kV                                |
| protection class IP on the front                                     | IP20                                |
| mechanical service life (operating cycles) typical                   | 10 000 000                          |
| electrical endurance (operating cycles) at AC-15 at 230 V typical    | 200 000                             |
| Substance Prohibitance (Date)  | 10/01/2009                          |
| number of NC contacts for auxiliary contacts                         |                                     |
| <ul> <li>instantaneous contact</li> </ul>                            | 0                                   |
| <ul> <li>lagging switching</li> </ul>                                | 0                                   |
| number of NO contacts for auxiliary contacts                         |                                     |
| <ul> <li>instantaneous contact</li> </ul>                            | 2                                   |
| leading contact  | 0                                   |
| number of CO contacts of auxiliary contacts instantaneous<br>contact | 0                                   |
| operational current at AC-15 at 690 V rated value                    | 1 A                                 |
| operational current of auxiliary contacts at AC-12                   |                                     |
| • at 24 V  | 10 A                                |
| • at 230 V   | 10 A                                |
| operational current of auxiliary contacts at AC-14                   |                                     |
| • at 125 V   | 6 A                                 |
| • at 250 V   | 6 A                                 |
| operational current of auxiliary contacts at AC-12 maximum           | 10 A                                |
| operational current of auxiliary contacts at AC-15                   |                                     |
| • at 24 V  | 6 A                                 |
| • at 230 V   | 6 A                                 |
| • at 400 V   | 3 A                                 |
| operational current of auxiliary contacts at DC-12                   |                                     |
| • at 24 V  | 10 A                                |
| • at 110 V   | 3 A                                 |
| • at 220 V   | 1 A                                 |
| operational current with 2 current paths in series at DC-12          |                                     |
| at 24 V rated value  | 10 A                                |

| <ul> <li>at 60 V rated value</li> </ul>  | 10 A  |
|--|---|
| <ul> <li>at 110 V rated value</li> </ul>   | 4 A   |
| <ul> <li>at 220 V rated value</li> </ul>   | 2 A   |
| • at 440 V rated value   | 1.3 A   |
| • at 600 V rated value   | 0.65 A  |
| operational current with 3 current paths in series at DC-12  |   |
| at 24 V rated value  | 10 A  |
| at 60 V rated value  | 10 A  |
| at 110 V rated value   | 10 A  |
| at 220 V rated value   | 3.6 A   |
| • at 440 V rated value   | 2.5 A   |
| at 600 V rated value   | 1.8 A   |
| operational current with 2 current paths in series at DC-13  |   |
| at 24 V rated value  | 10 A  |
|  |   |
| at 60 V rated value  | 3.5 A   |
| • at 110 V rated value   | 1.3 A   |
| at 220 V rated value   | 0.9 A   |
| • at 440 V rated value   | 0.2 A   |
| at 600 V rated value   | 0.1 A   |
| operational current with 3 current paths in series at DC-13  |   |
| <ul> <li>at 24 V rated value</li> </ul>  | 10 A  |
| • at 60 V rated value  | 4.7 A   |
| <ul> <li>at 110 V rated value</li> </ul>   | 3 A   |
| <ul> <li>at 220 V rated value</li> </ul>   | 1.2 A   |
| <ul> <li>at 440 V rated value</li> </ul>   | 0.5 A   |
| • at 600 V rated value   | 0.26 A  |
| operational current of auxiliary contacts at DC-13   |   |
| • at 24 V  | 6 A   |
| • at 48 V  | 2 A   |
| • at 60 V  | 2 A   |
| • at 110 V   | 1 A   |
| • at 125 V   | 0.9 A   |
| • at 220 V   | 0.3 A   |
| • at 250 V   | 0.3 A   |
| contact reliability of auxiliary contacts  | 1 faulty switching per 100 million (17 V, 1 mA)   |
|  |   |
|  |   |
| Ambient conditions   |   |
| Ambient conditions<br>ambient temperature  | 25 160 °C   |
| Ambient conditions<br>ambient temperature<br>• during operation  | -25 +60 °C  |
| Ambient conditions<br>ambient temperature<br>• during operation<br>• during storage  | -25 +60 °C<br>-55 +80 °C  |
| Ambient conditions<br>ambient temperature<br>• during operation<br>• during storage<br>Safety related data   |   |
| Ambient conditions<br>ambient temperature<br>• during operation<br>• during storage<br>Safety related data<br>product function   | -55 +80 °C  |
| Ambient conditions<br>ambient temperature<br>• during operation<br>• during storage<br>Safety related data<br>product function<br>• mirror contact according to IEC 60947-4-1  | -55 +80 °C<br>Yes; with 3RT2  |
| Ambient conditions<br>ambient temperature<br>• during operation<br>• during storage<br>Safety related data<br>product function<br>• mirror contact according to IEC 60947-4-1<br>• positively driven operation according to IEC 60947-5-1  | -55 +80 °C<br>Yes; with 3RT2<br>Yes   |
| Ambient conditions<br>ambient temperature<br>• during operation<br>• during storage<br>Safety related data<br>product function<br>• mirror contact according to IEC 60947-4-1  | -55 +80 °C<br>Yes; with 3RT2  |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • contact reliability of auxiliary contacts  | -55 +80 °C<br>Yes; with 3RT2<br>Yes   |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1  | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2  |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • contact reliability of auxiliary contacts  | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2  |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • contact reliability of auxiliary contacts         Installation/ mounting/ dimensions   | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)   |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method  | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting   |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height   | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm  |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width  | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm   |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width         depth   | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm   |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals         type of electrical connection for auxiliary and control circuit  | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm<br>43.7 mm  |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals   | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm<br>43.7 mm  |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals         type of electrical connection for auxiliary and control circuit         connectable conductor cross-section for auxiliary contacts         • solid or stranded   | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm<br>43.7 mm<br>screw-type terminals<br>0.5 2.5 mm <sup>2</sup>   |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals         type of electrical connection for auxiliary and control circuit         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing   | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm<br>43.7 mm  |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals         type of electrical connection for auxiliary and control circuit         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm<br>43.7 mm<br>screw-type terminals<br>0.5 2.5 mm <sup>2</sup>   |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals         type of electrical connection for auxiliary and control circuit         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary contacts                                 | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm<br>43.7 mm<br>screw-type terminals<br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup>  |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals         type of electrical connection for auxiliary and control circuit         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary contacts         - solid or stranded  | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm<br>43.7 mm<br>screw-type terminals<br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup><br>2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) |
| Ambient conditions         ambient temperature         • during operation         • during storage         Safety related data         product function         • mirror contact according to IEC 60947-4-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         • positively driven operation according to IEC 60947-5-1         contact reliability of auxiliary contacts         Installation/ mounting/ dimensions         fastening method         height         width         depth         Connections/ Terminals         type of electrical connection for auxiliary and control circuit         connectable conductor cross-section for auxiliary contacts         • solid or stranded         • finely stranded with core end processing         type of connectable conductor cross-sections         • for auxiliary contacts                                 | -55 +80 °C<br>Yes; with 3RT2<br>Yes<br>with 3RH2<br>1 faulty switching per 100 million (17 V, 1 mA)<br>snap-on mounting<br>37.5 mm<br>36 mm<br>43.7 mm<br>screw-type terminals<br>0.5 2.5 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup>  |

| AWG number as code<br>auxiliary contacts<br>Approvals Certificates | d connectable conductor cr                    | oss section for 20   | . 14                          |   |                               |
|--|---|----------------------|-------------------------------|---|-------------------------------|
| General Product App  |   |                      |                               |   |                               |
| ()<br>E  |   | Confirmation         |                               | KC                                      | EHC                           |
| EMC  | Functional<br>Safety/Safety of Ma-<br>chinery | Declaration of Confo | rmity                         | Test Certificates                       |                               |
| RCM  | Type Examination Cer-<br>tificate             | UK<br>CA             | CE<br>EG-Konf.                | Type Test Certific-<br>ates/Test Report | Special Test Certific-<br>ate |
| Marine / Shipping  |   |                      |                               |   |                               |
| ABS  | BUREAU<br>VERITAS                             |                      | Lloyd's<br>Register           | PRS                                     | RINA                          |
| Marine / Shipping  | other   |                      | Railway                       |   |                               |
| RMRS   | <u>Confirmation</u>                           | UDE VDE              | Special Test Certific-<br>ate | Type Test Certific-<br>ates/Test Report | Vibration and Shock           |
| Environment  |   |                      |                               |   |                               |
| Environmental Con-<br>firmations                                   |   |                      |                               |   |                               |

#### Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2911-1LA20

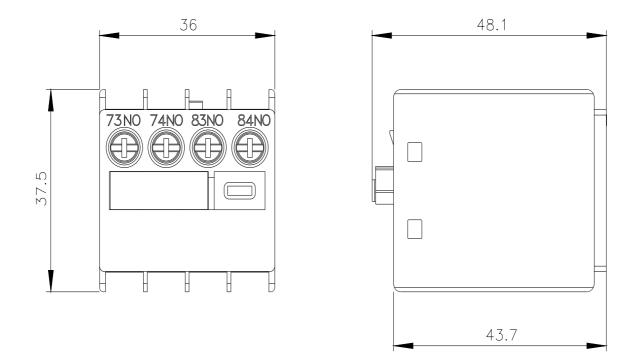
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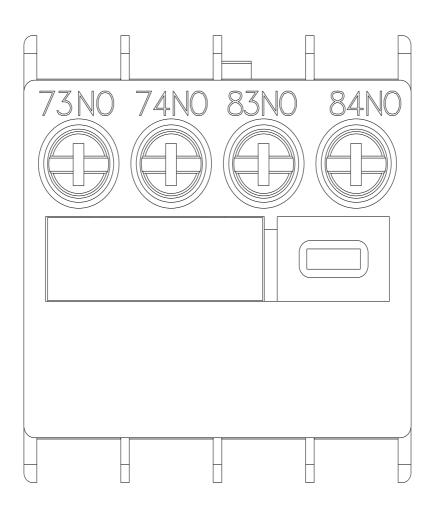
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2911-1LA20

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RH2911-1LA20

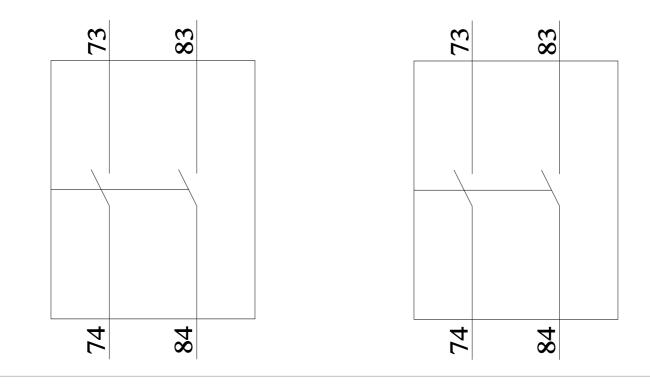
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2911-1LA20&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2911-1LA20&lang=en</a>







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